WHAT IS CLAIMED IS:

1. A method for manufacturing a light emitting diode, comprising steps of: providing a growing substrate;

forming a semiconductor structure on said growing substrate;

forming a metal bonding layer on said semiconductor structure;

bonding a transparent substrate to said semiconductor structure via said metal bonding layer;

removing said growing substrate; and

forming a first electrode and a second electrode on said semiconductor structure and said transparent substrate respectively.

- 2. The method as claimed in claim 1, wherein said growing substrate is a GaAs substrate.
- 3. The method as claimed in claim 1, wherein said semiconductor structure is a light emitting diode structure.
- 4. The method as claimed in claim 3, wherein said light emitting diode structure is formed by a four-element material of AlGaInP.
- 5. The method as claimed in claim 1, wherein said metal bonding layer is one selected from a group consisting of an AuBe, an AuSn, an AuGe, an AuNi, and an AuZn thin films.
- 6. The method as claimed in claim 1, wherein said transparent substrate is one selected from a group consisting of a GaP, a SiC, an AlAs, an AlGaAs and a diamond substrates.
- 7. The method as claimed in claim 1, wherein said transparent substrate is preferably a GaP substrate.
- 8. The method as claimed in claim 1, wherein said bonding step is performed at a bonding temperature ranged from 300° C to 900° C.

- 9. The method as claimed in claim 1, wherein said bonding step is performed at a bonding pressure ranged from 500 pounds to 5000 pounds.
- 10. The method as claimed in claim 1, wherein said first electrode and said second electrode are respectively a P-type electrode and an N-type electrode.
- 11. The method as claimed in claim 1, wherein said first electrode and said second electrode are respectively an N-type electrode and a P-type electrode.
 - 12. A light emitting diode, comprising:
 - a semiconductor structure for emitting light;
- a transparent substrate formed on said semiconductor structure via a metal bonding layer between said semiconductor structure and said transparent substrate; and
- a first electrode and a second electrode respectively formed on said semiconductor structure and said transparent substrate for providing a current to said semiconductor structure.
- 13. The light emitting diode structure as claimed in claim 12, wherein said semiconductor structure is a light emitting diode structure.
- 14. The light emitting diode structure as claimed in claim 13, wherein said light emitting diode structure is formed by a four-element material of AlGaInP.
- 15. The light emitting diode structure as claimed in claim 12, wherein said transparent substrate is one selected from a group consisting of a GaP, a SiC, an AlAs, an AlGaAs and a diamond substrates.
- 16. The light emitting diode structure as claimed in claim 12, wherein said transparent substrate is preferably a GaP substrate.
- 17. The light emitting diode structure as claimed in claim 12, wherein said metal bonding layer is one selected from a group consisting of an AuBe, an AuSn, an AuGe, an AuNi, and an AuZn thin films.

- 18. The light emitting diode structure as claimed in claim 12, wherein said metal bonding technology is performed at a bonding temperature ranged from 300°C to 900°C.
- 19. The light emitting diode structure as claimed in claim 12, wherein said metal bonding technology is performed at a bonding pressure ranged from 500 pounds to 5000 pounds.
- 20. The light emitting diode structure as claimed in claim 12, wherein said first electrode and said second electrode are respectively a P-type electrode and an N-type electrode.
- 21. The light emitting diode structure as claimed in claim 12, wherein said first electrode and said second electrode are respectively an N-type electrode and a P-type electrode.